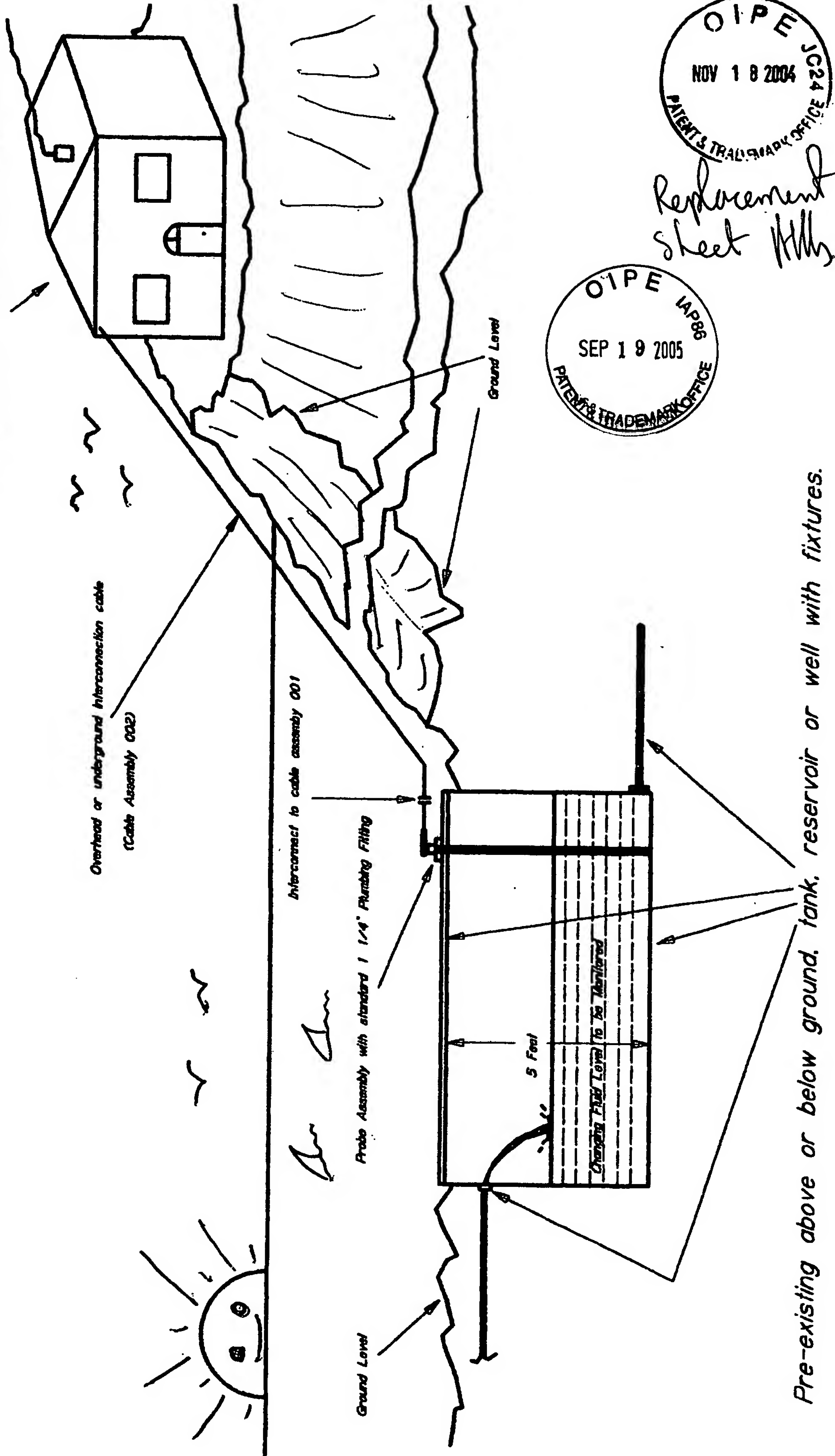


REMOTE MONITORING STATION

(Dwelling, Farm house, Office, Laboratory, Data control unit etc.)

! The Electronics Box, EBI, Shall Be Mounted Conveniently Here !



Pre-existing above or below ground, tank, reservoir or well with fixtures.

| | |
|----------------|----------------------|
| Designed | Date: 10/21/2004 |
| Allen H. Green | Project: Fluid Level |
| Approved: HHH | FIG. 1 |
| Draw # 0032203 | |



Replacement Sheet
Mh,

| | | |
|---------------------------|------------------|----------------------|
| Designed Alan H. Green | Date: 10/21/2004 | Project: Fluid level |
| Approved Mh | | |
| Draw # 0035001 | | FIG. 2 |

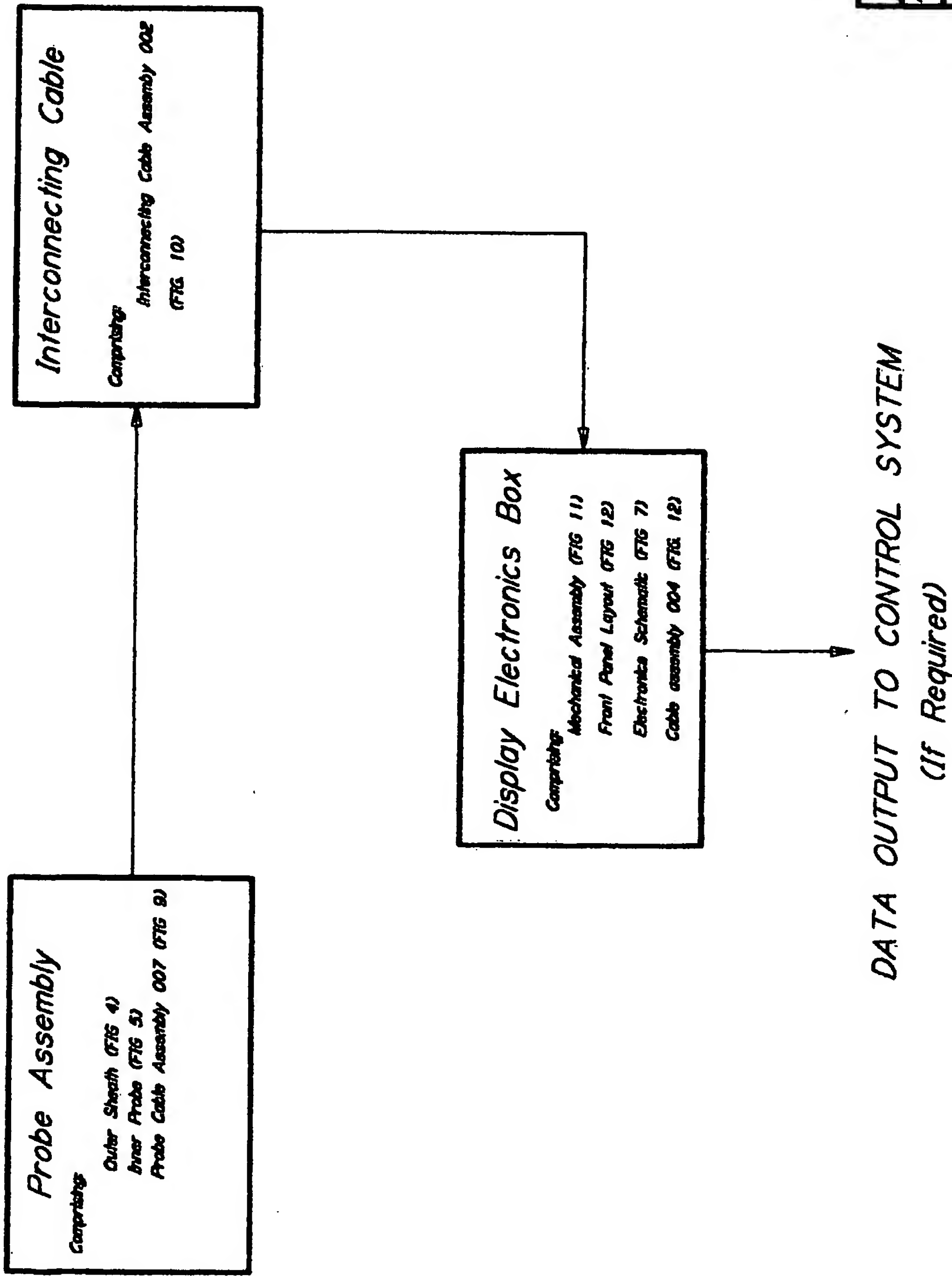
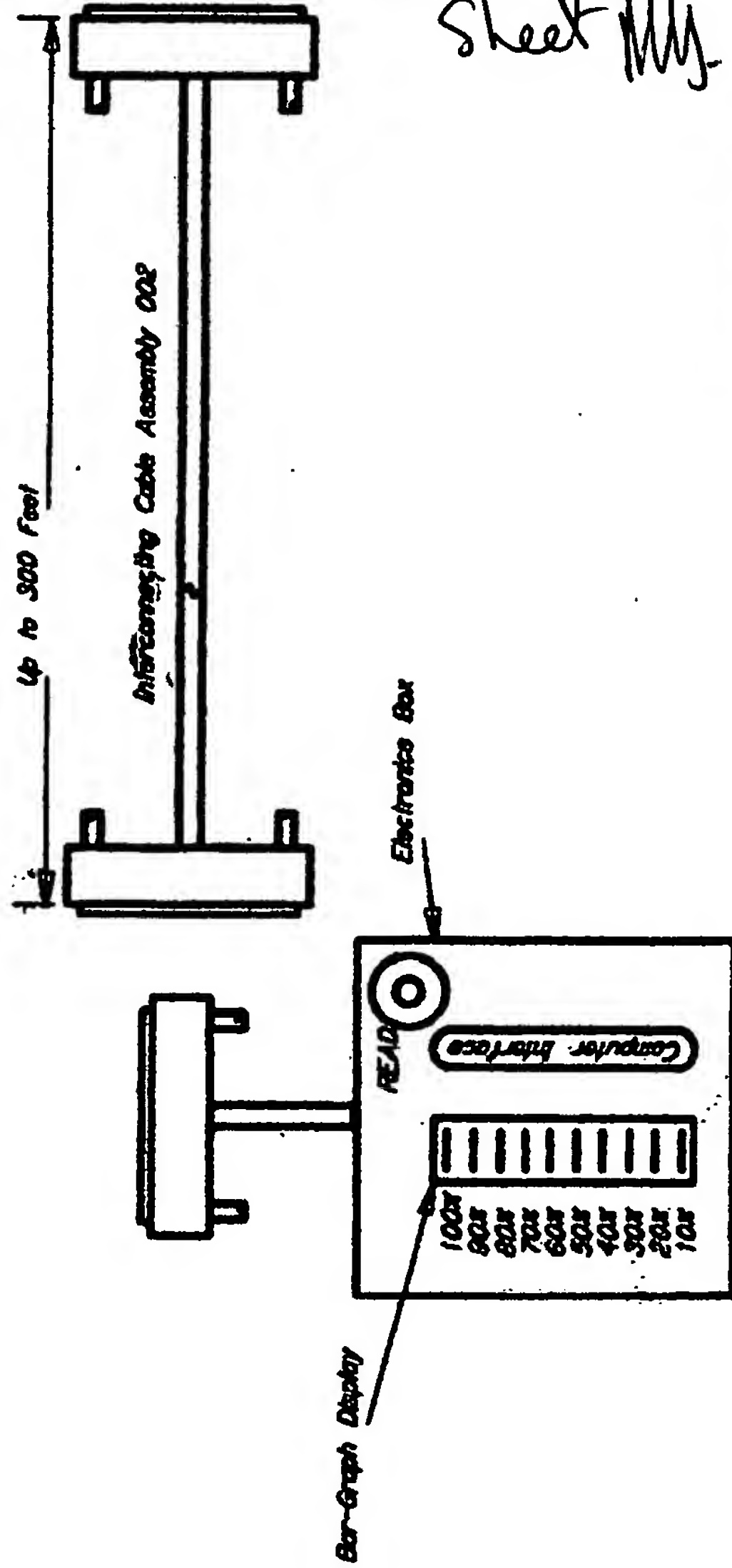
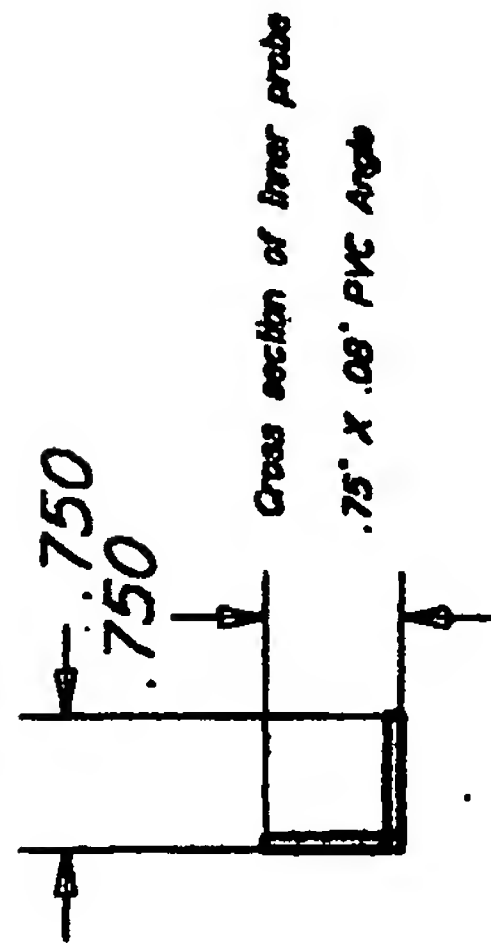
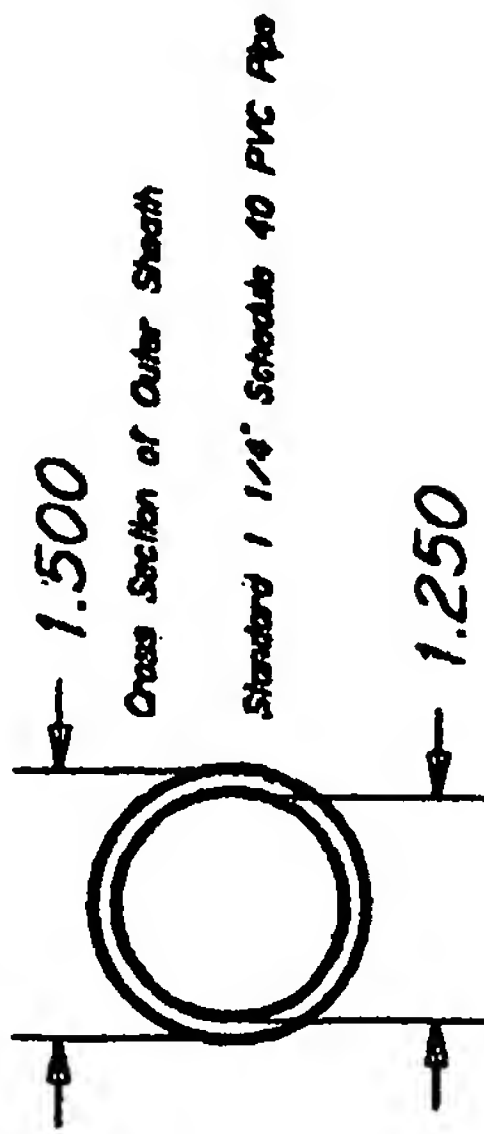
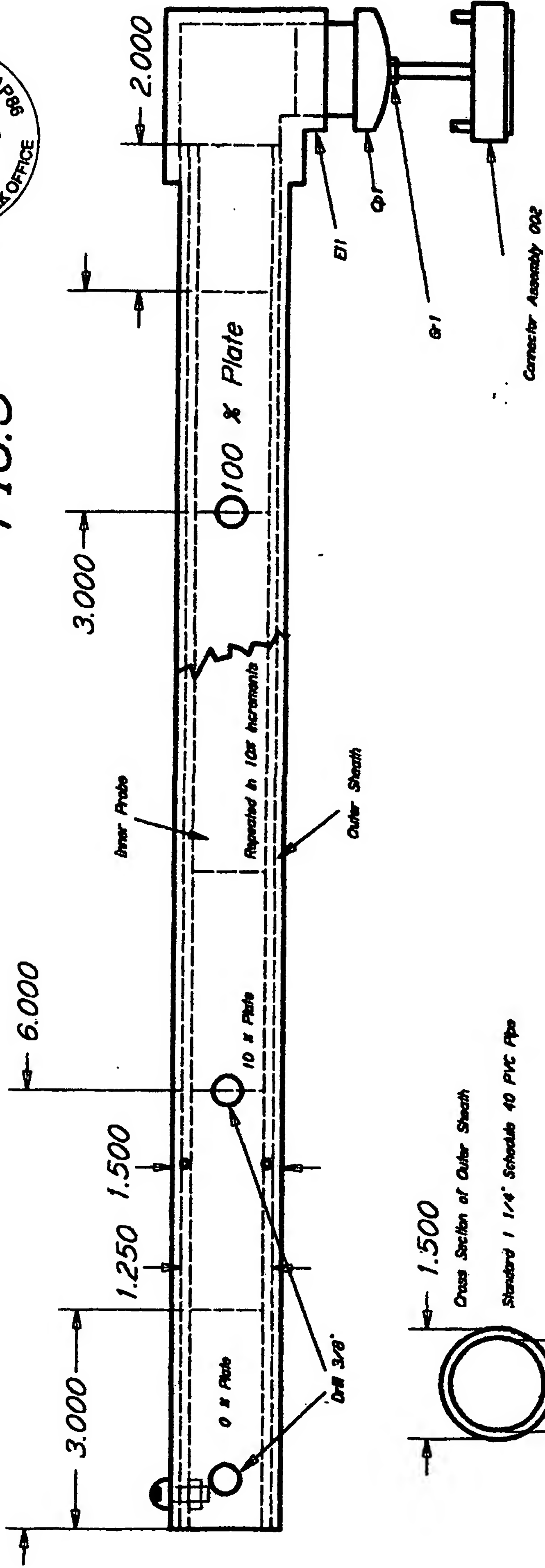




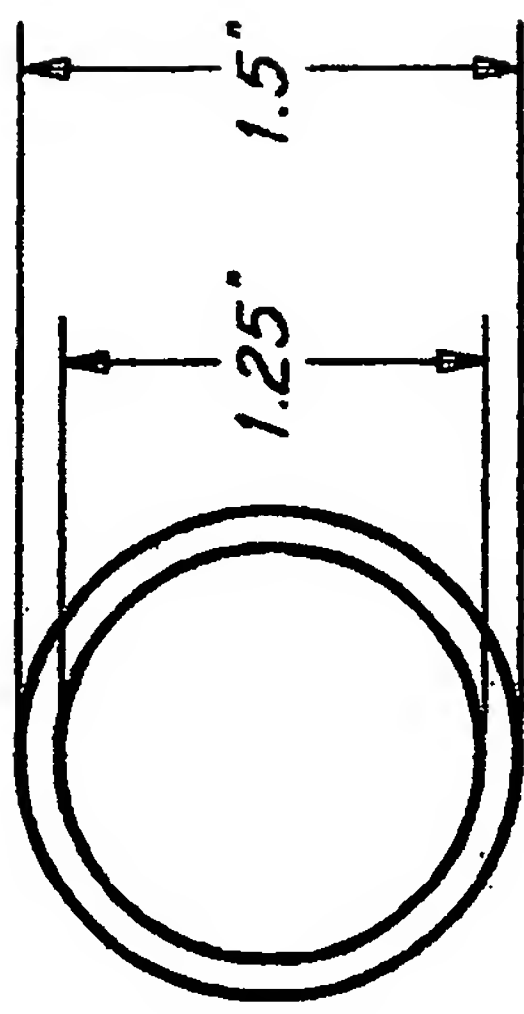
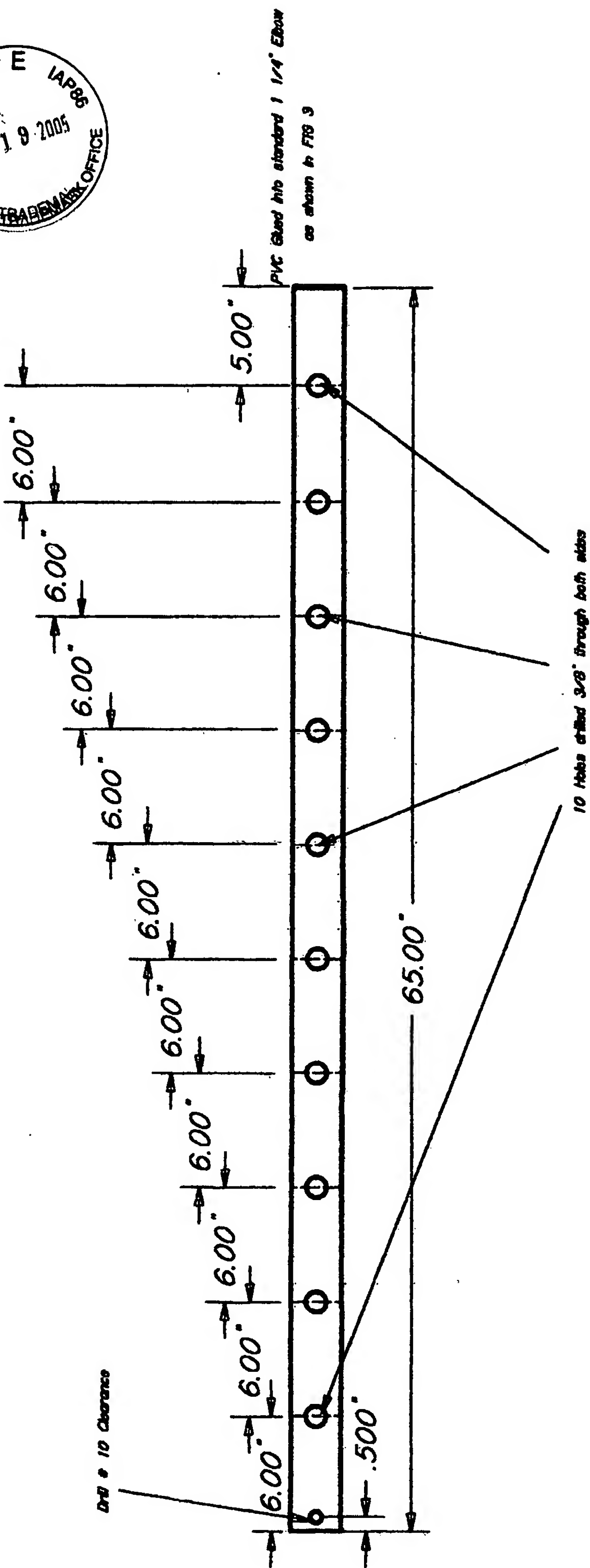
FIG. 3



Replacement Sheet *WJ*

Prototype Electronics Box 5.25" X 3.25" approx

| | | | |
|----------|-----------|--------|------------------|
| Designed | <i>WJ</i> | FIG. 3 | General Assembly |
| A/ Green | | | |
| E. Carl | Member | | |



Outer Sheath Cut From Standard
Schedule 40 1 1/4" PVC Pipe
Drilled as Shown

Replacement
Sheet 11/1/04

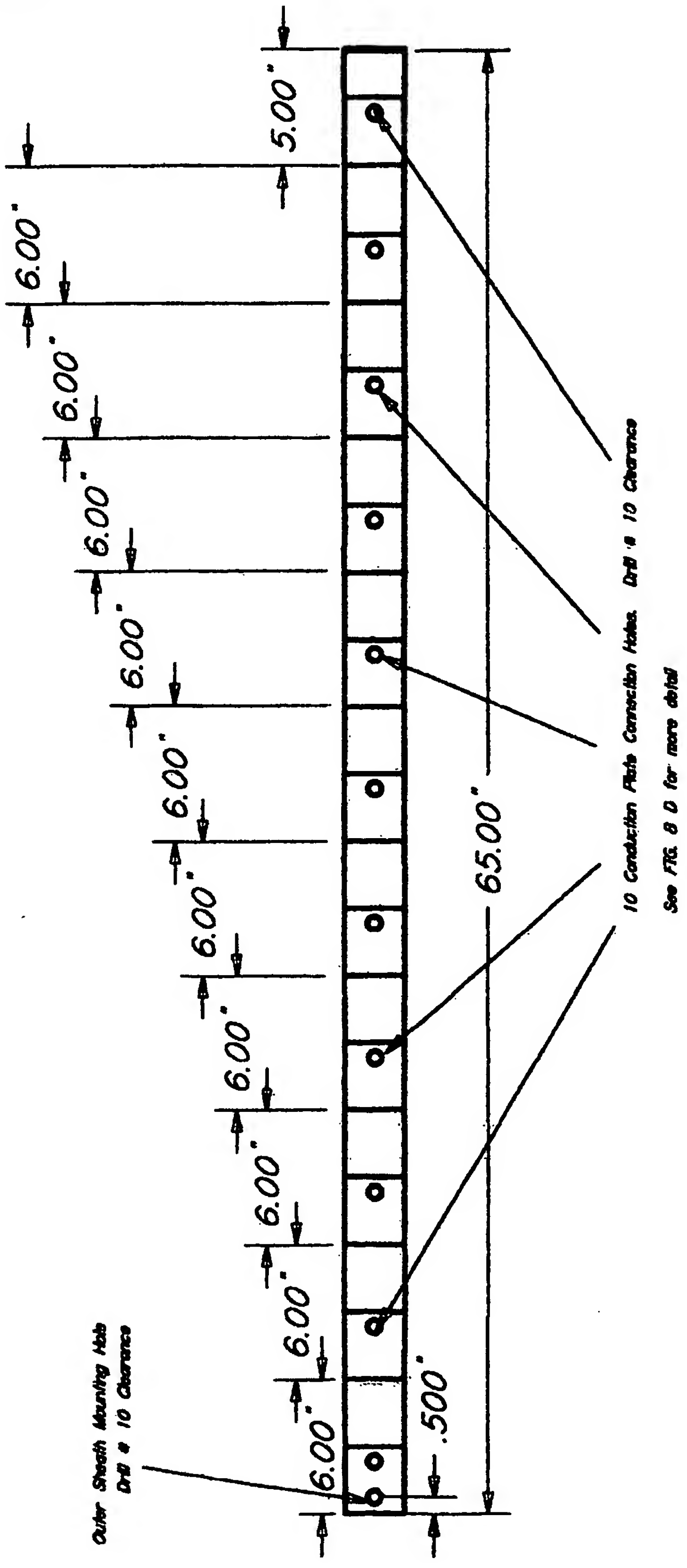
Cross Section Approx Dimensions

| | |
|----------------------------|----------------------|
| Designed Allen H. Green | Date: 10/21/2004 |
| Approved | Project: Fluid level |
| Draw # 0032004 | FIG. 4 |

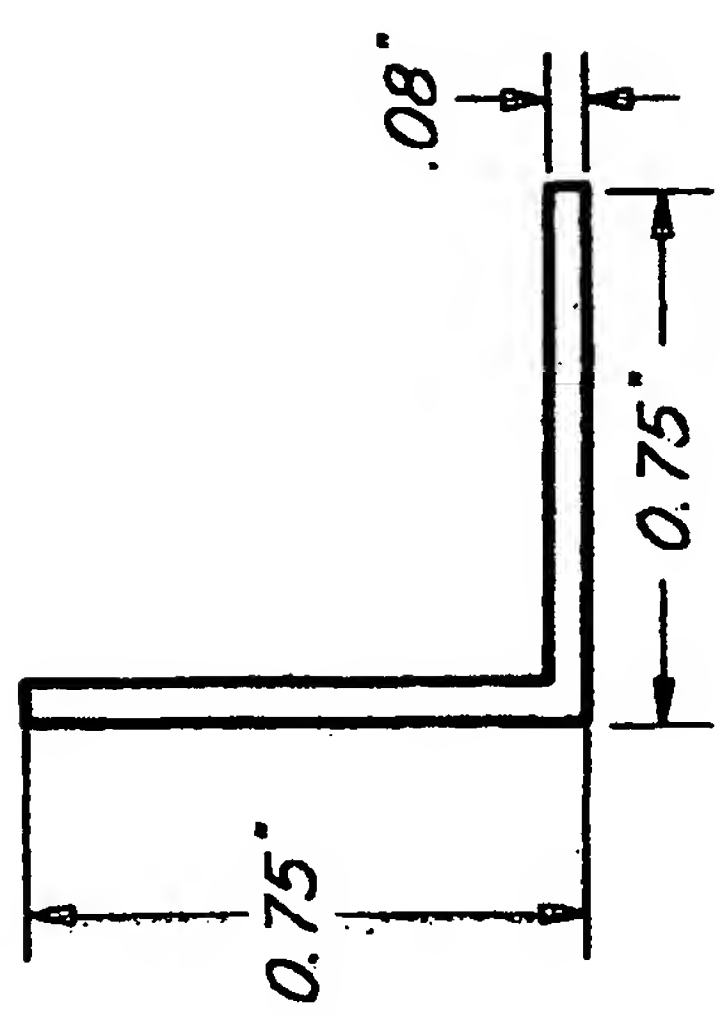


Replacement Sheet
Mly.

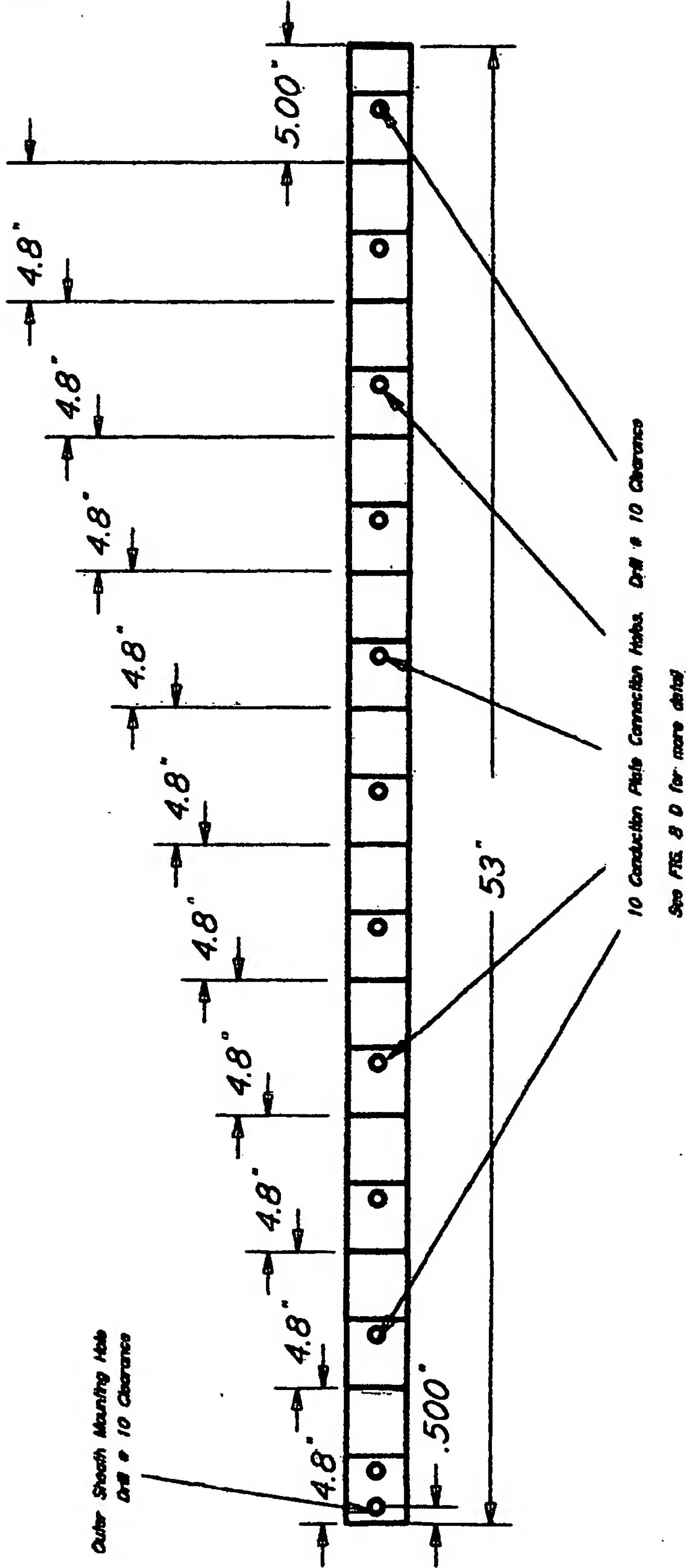
| | | | |
|----------------|------------------|----------------------|--------|
| Designed | Date: 10/21/2004 | Project: Fluid level | FIG. 5 |
| Allen H. Smith | | | |
| Approved | | | |
| Draw # | 0032005 | | |



Inner Probe Cut From Standard
3/4" X .08" PVC Angle
Drilled as Shown



Cross Section Approx Dimensions



The Probe can be made to match almost any tank depth. (Spacing = 10% of total depth)

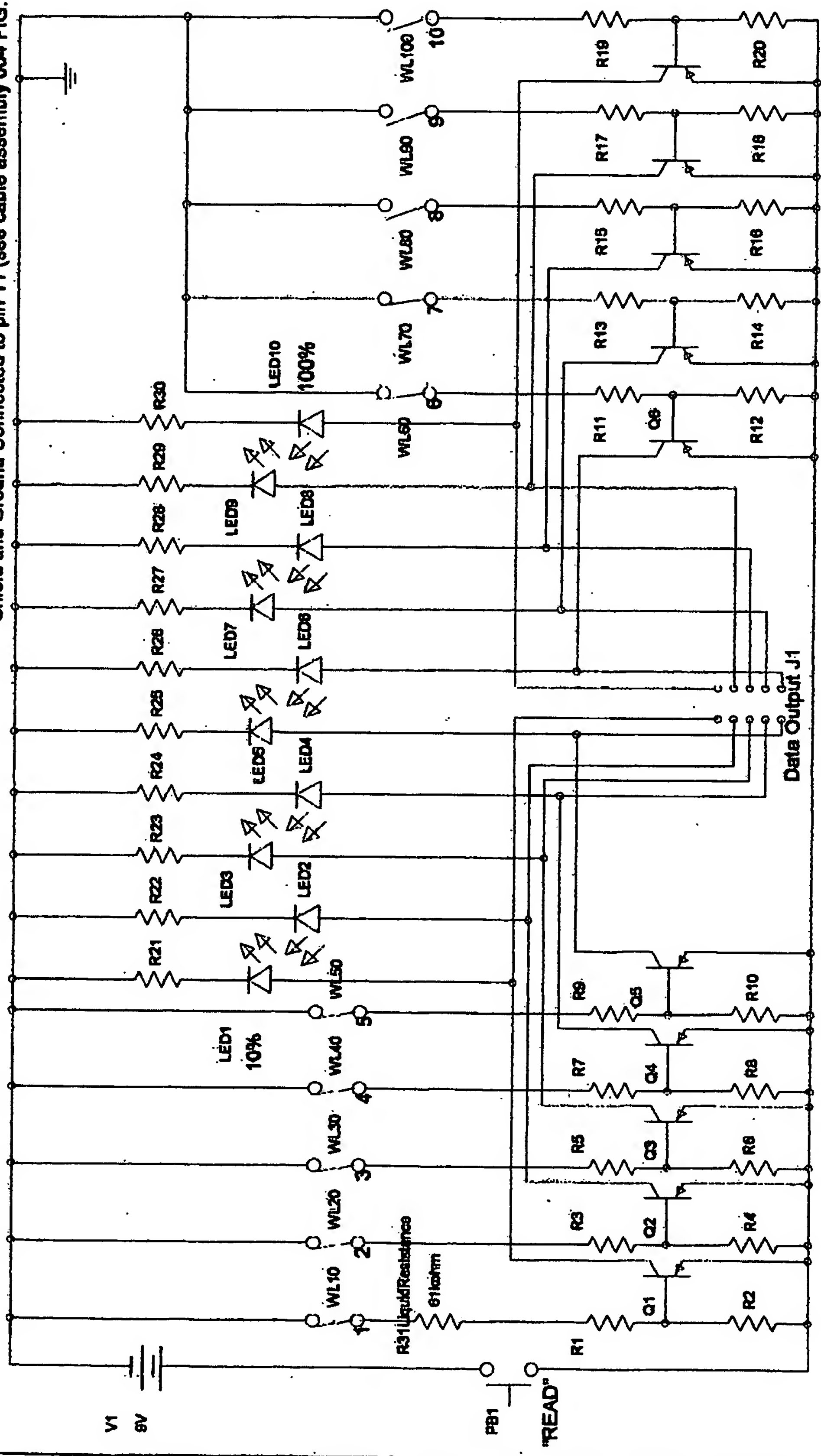
This Diagram Shows How the Dimensions of the Inner Probe Would Change for a 4 Foot Version.

The Outer Sheath Would Follow Accordingly ie 4.8" spacing instead of 6"

My Replacement Sheet.

| | |
|----------------|----------------------|
| Designed | Date: 10/21/2004 |
| Allen H. Green | Project: Fluid level |
| Approved | FIG. 6 |
| Drawn: 0032005 | |

Shield and Ground Connected to pin 11 (see cable assembly 004 FIG. 12)



Notes:

1. Normally Open Switches WL10 - WL100 represent the incremental fluid levels 10% - 100% being reached. (70% full is being used for demonstration purposes)
The associated pin numbers 1 - 10 refer to interconnecting cable 004 detailed in FIG 12
2. R31 Represents the maximum liquid level resistance for each increment that can be tolerated for this version and is included in the schematic for demonstration purposes only (SEE ELECTRONIC CIRCUIT THEORY OF OPERATION)
3. Connection detail of Optional Data Output J1 is detailed in FIG 13.
4. A complete parts list is shown in Table 1

| | |
|---|-------------------|
| Title: Fig. 7 | |
| FIG. 7 Display Electronics Box Schematic. | |
| Designed by: Alan Green | Document N: 0007 |
| Checked by: [Signature] | Date: Oct 12 2004 |
| Revision: D | Size: A |

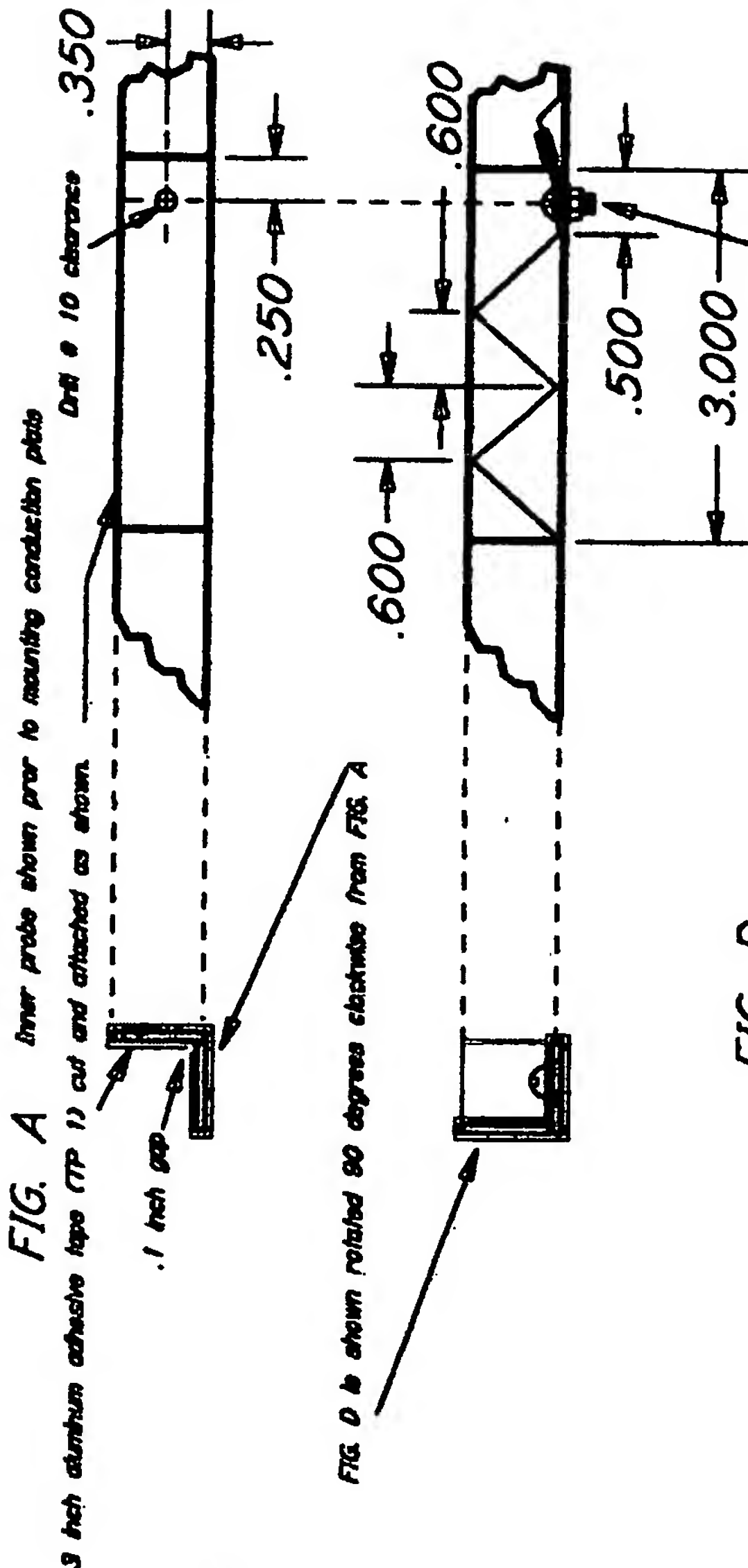
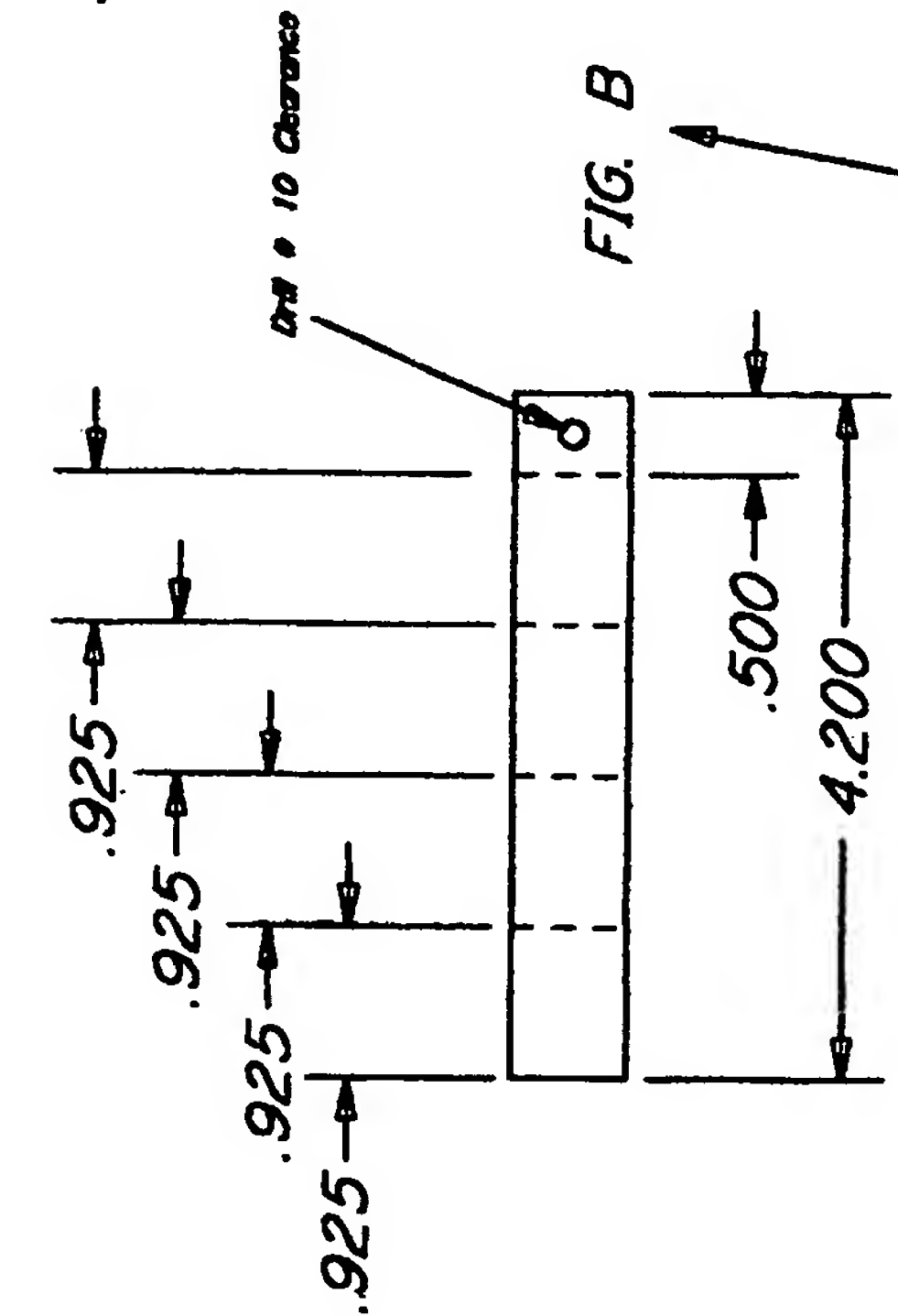


FIG. A Inner probe shown prior to mounting conduction plate

FIG. B 30 Gauge Aluminum Sheet
Cut, marked and drilled as shown in FIG. B
Bend as shown in FIG. C

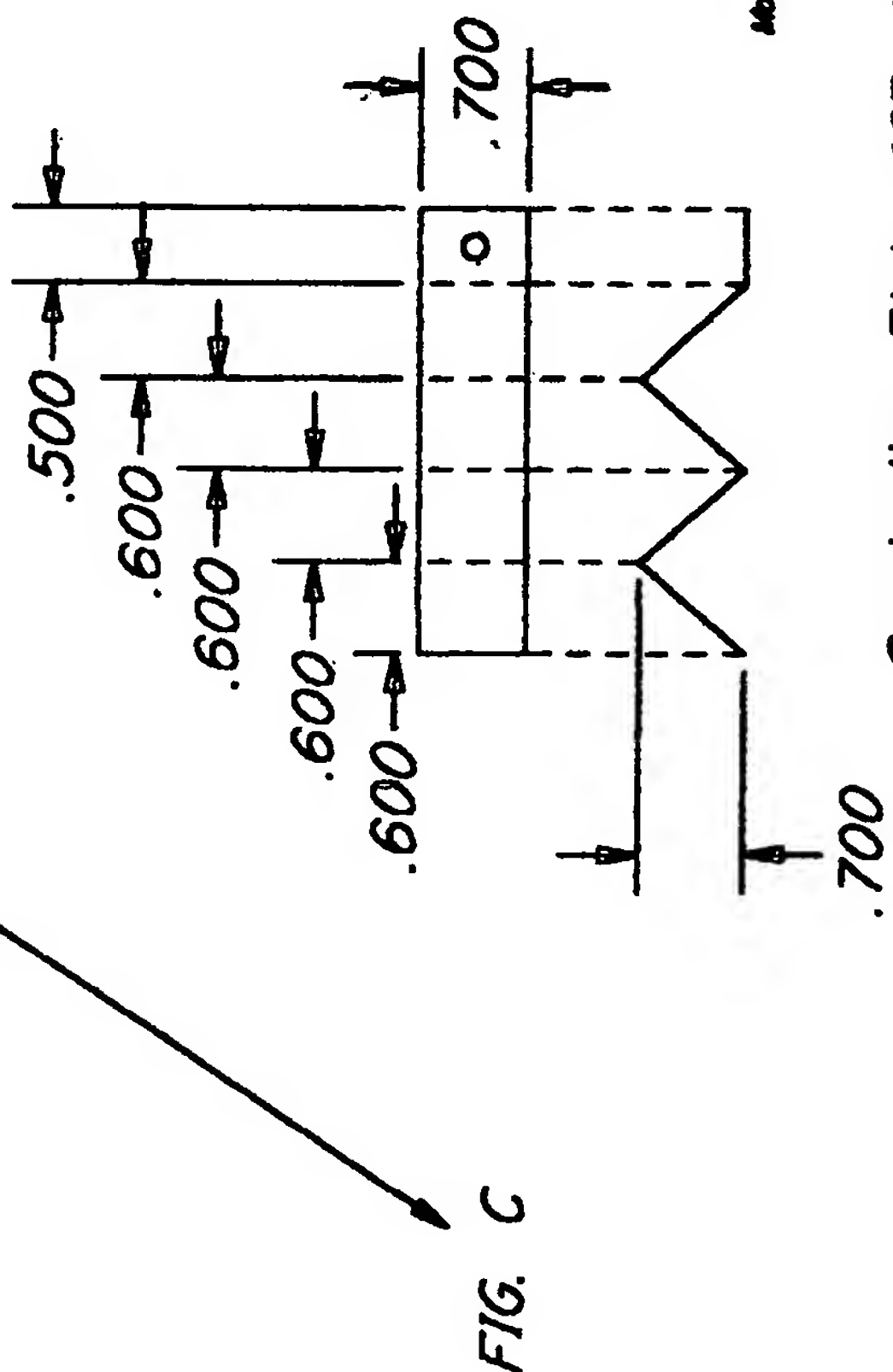


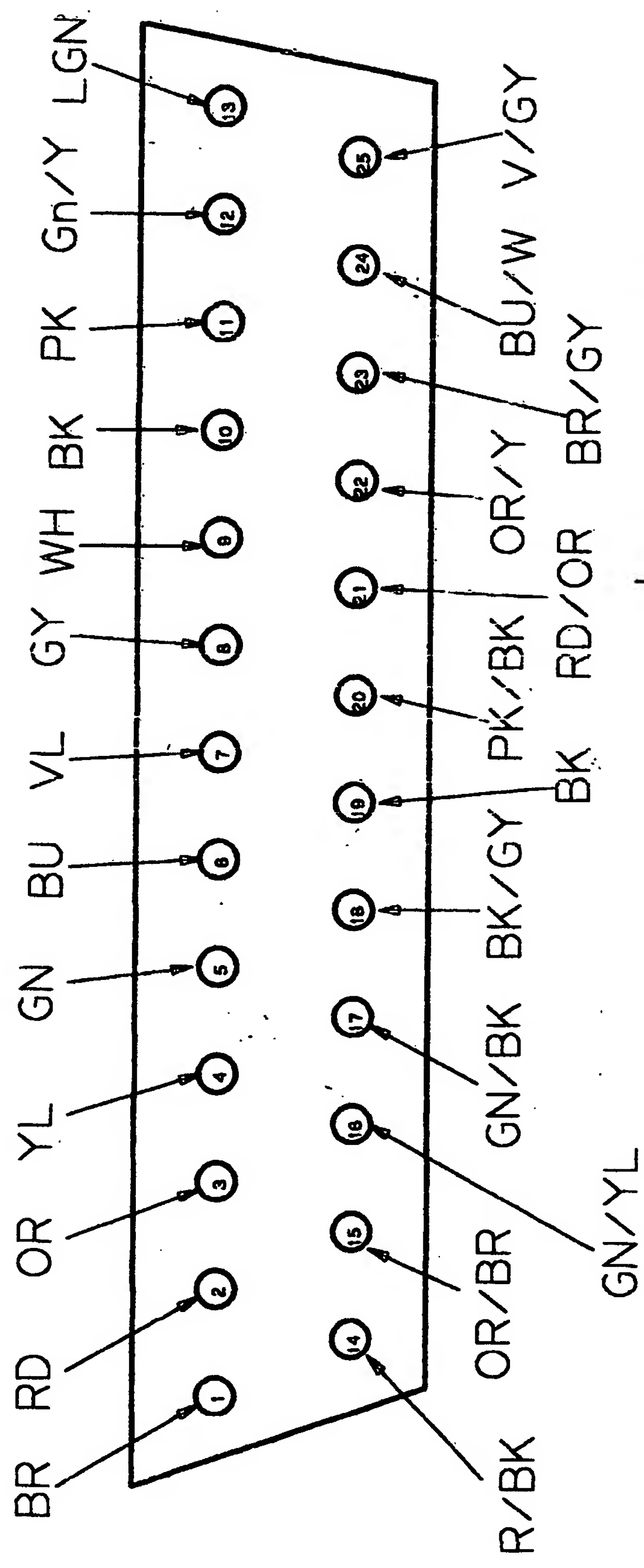
FIG. C Conduction Plate (CP 1 - 10)



- Crapp Terminal (CR 1 - 10)
- Wire connection (See FIG. 8 for wiring detail)
- Stainless Steel Lockwasher (LX 1 - 10)
- Stainless Steel Nut (N 1 - 10)
- Stainless Steel Bolt (BLT 1 - 10)

Replaced sheet

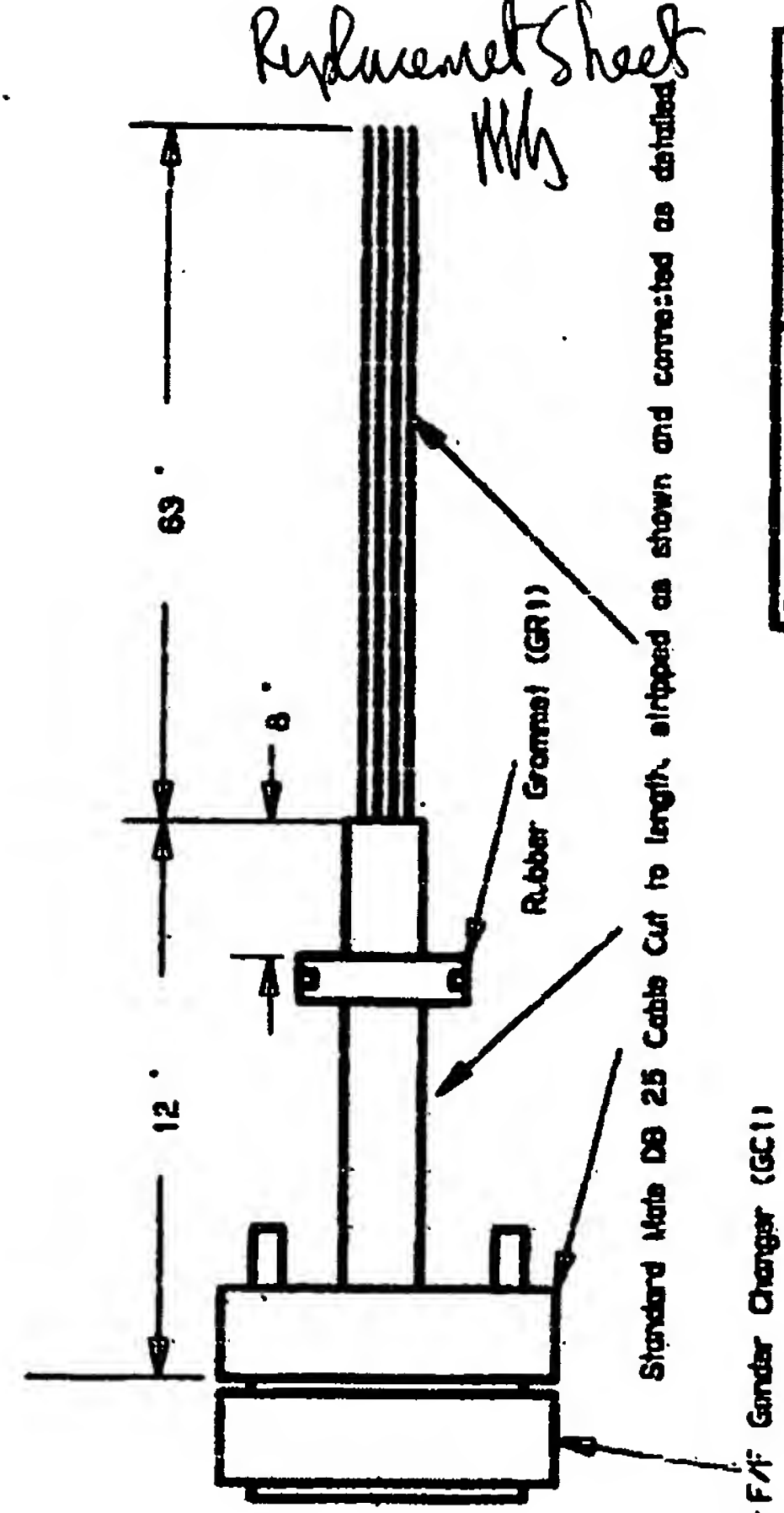
| | |
|----------------|----------------------|
| Designed | Date: 10/21/2004 |
| Allen H. Green | Project: Fluid level |
| Approved | FIG. 8 |
| Drawn: 0032001 | |



- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

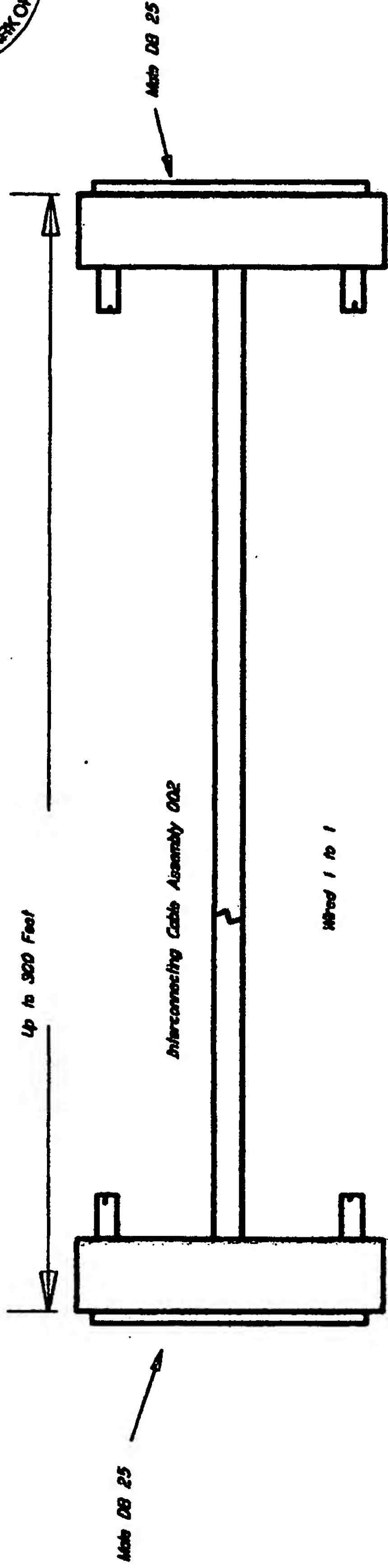
Refer to FIG. 5 for mechanical connection detail

Pin 11 = Gnd 0%



Reduction Sheet

| | |
|--------------------------------|------------------------|
| Designed Alan H. Green | Date 10/22/2034 |
| Approved <i>[Signature]</i> | Project Fluid Level |
| Drawn 0032008 | FIG. 9 |



Standard DB 25 Cable Wired 1 to 1

The system has been field tested with 300 Feet of interconnecting cable.

It is anticipated that it will work successfully at distances much greater than this if required. Cable is expensive so the length will generally be tailored to individual requirements.

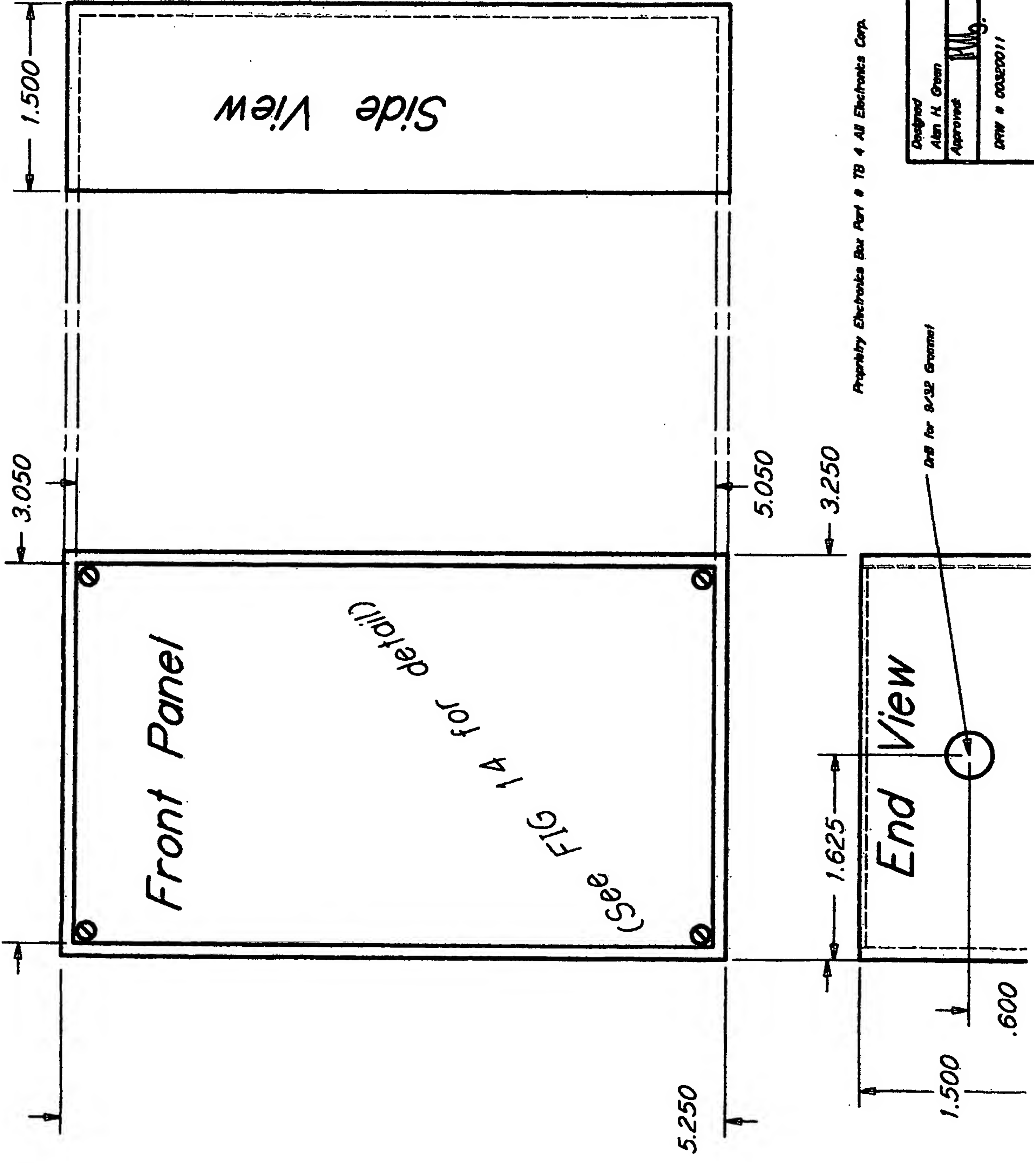
Replumb Sheet
HHS

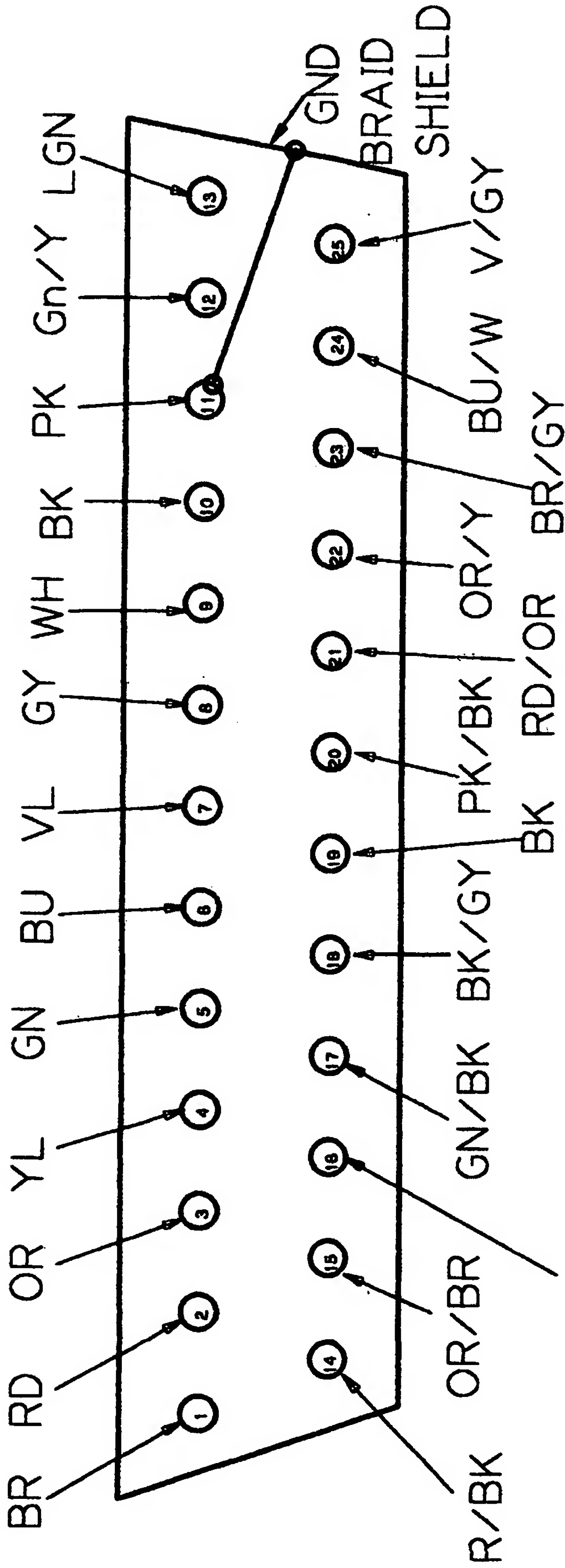
| | | |
|----------------------|-----------------------------|-----------------------------|
| Designed AU Green | FIG. 10 General Assembly | Interconnecting cable Rev D |
|----------------------|-----------------------------|-----------------------------|



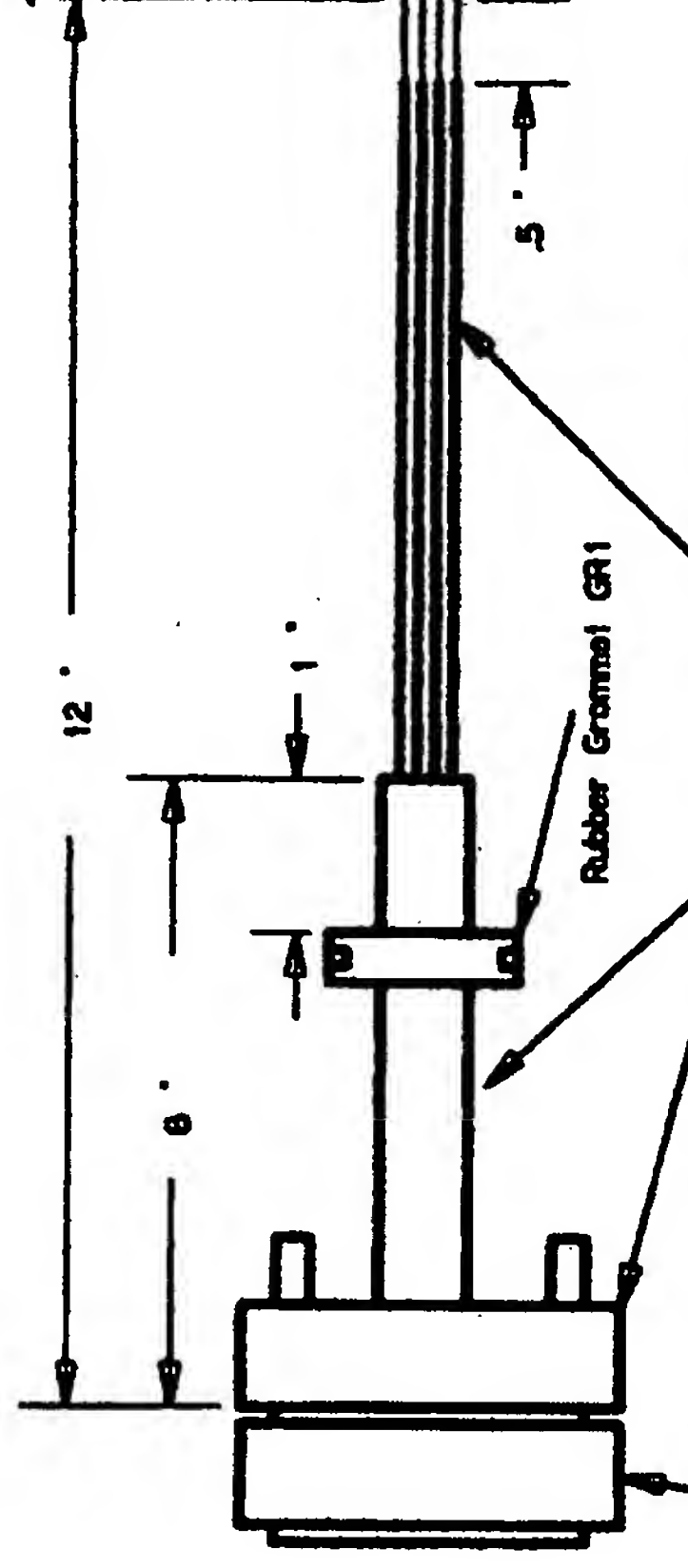
Replacement
Sheet *ML*

| | |
|---------------------------|------------------------------------|
| Designed Alan H. Green | Date: 11/08/2004 |
| Approved <i>ML</i> | Project: Fluid Level |
| DRW # 00320011 | FIG. 11 Electronics Display Box |





Replacement Sheet 7



- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

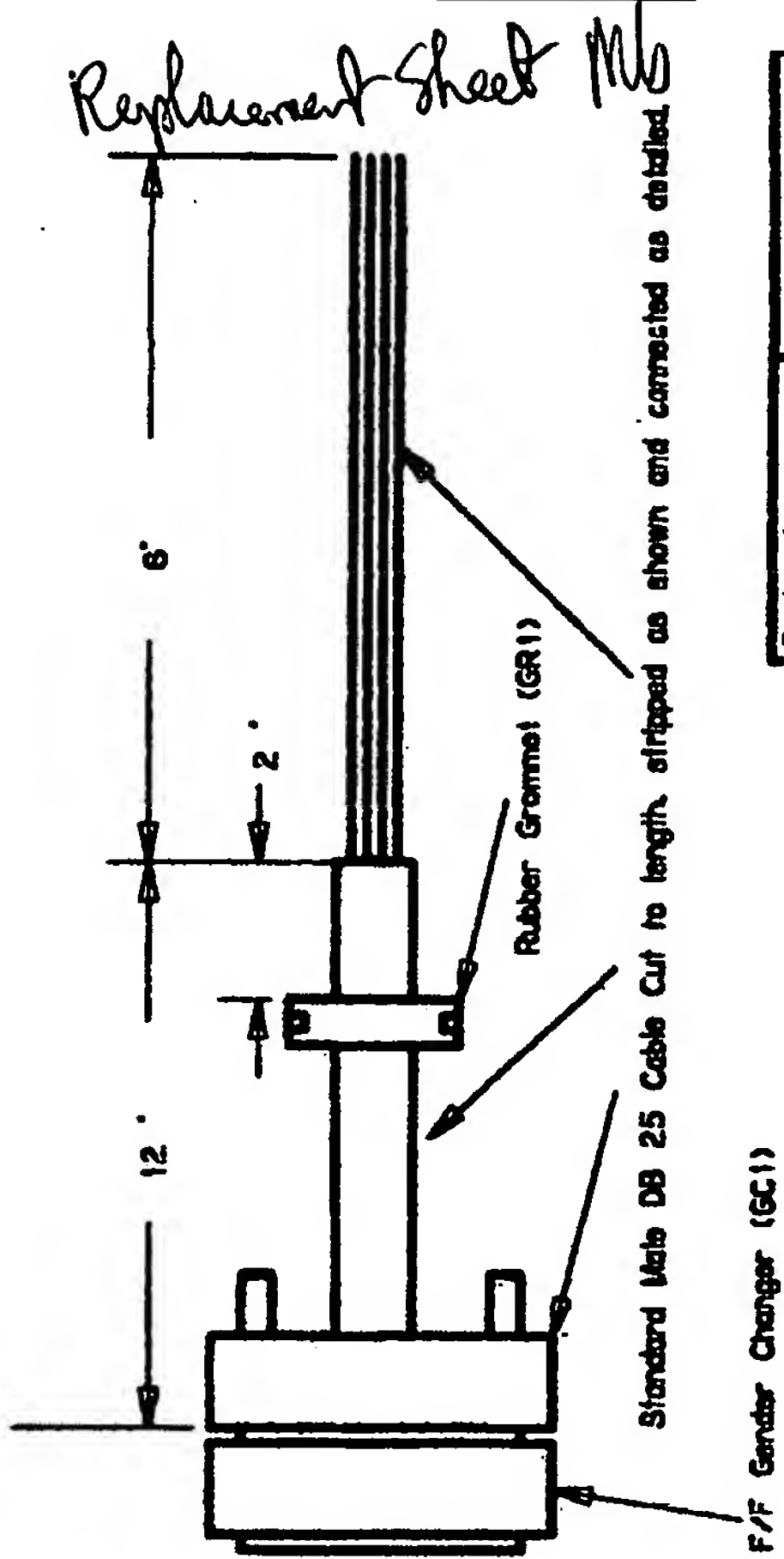
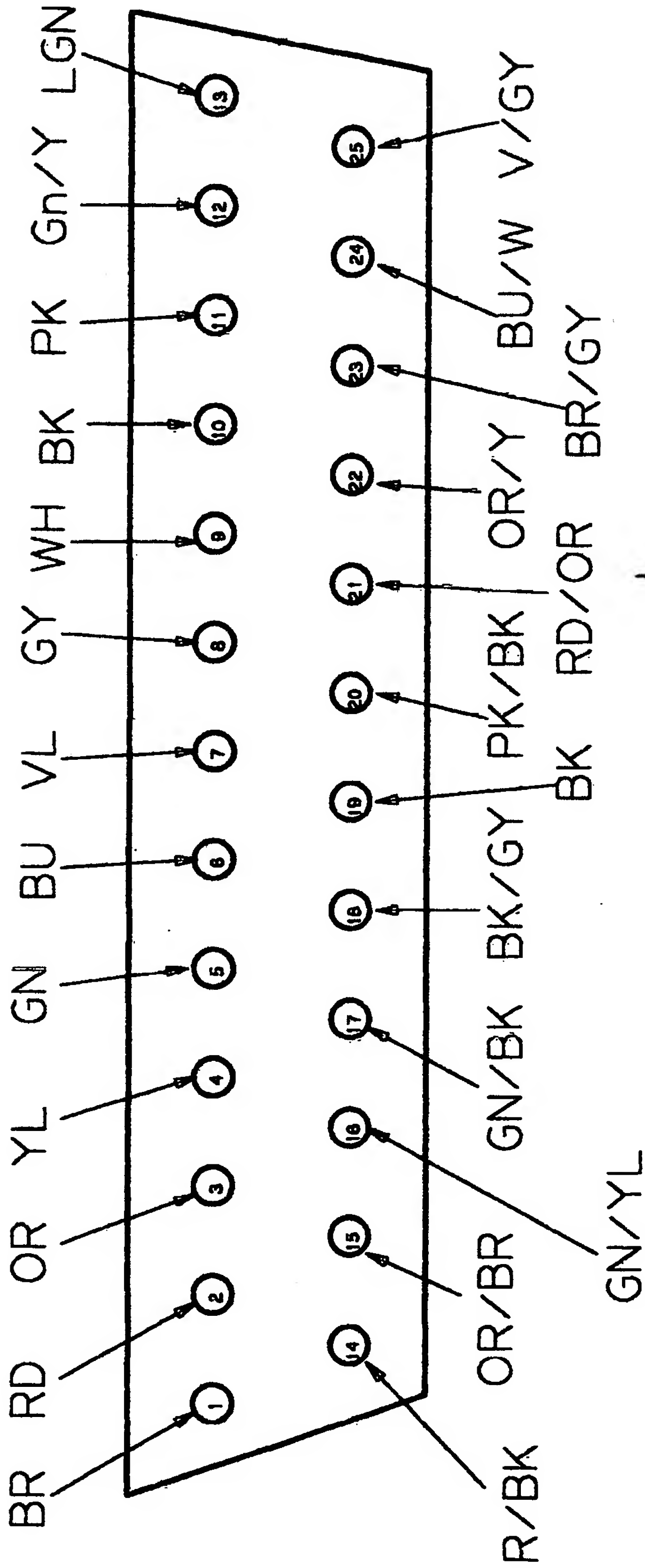
Refer to FIG. 7 for more detail

Pin 11 = Gnd & Shield

Standard Male DB 25 Cable Cut to length, stripped as shown and connected as detailed.

Standard DB 25 F/F Gender Changer

| | |
|--------------------------------|----------------------|
| Designed Alan H. Gassen | Date 10/23/2004 |
| Approved <i>[Signature]</i> | Project: Fluid Level |
| Drawn 0032006 | FIG. 12 |



- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

Refer to FIG. 7 for Electrical Connection Detail to J1

Pin 11 = Gnd 0%

Replacement Sheet

| | |
|--------------------------------|----------------------|
| Designed Alan H. Griffin | Date 10/22/2004 |
| Approved <i>[Signature]</i> | Project: Fluid Level |
| Draw # 00326613 | |

FIG. 13



Replaced Sheet
M

FIG. 14

Vinyl Front Panel as Printed

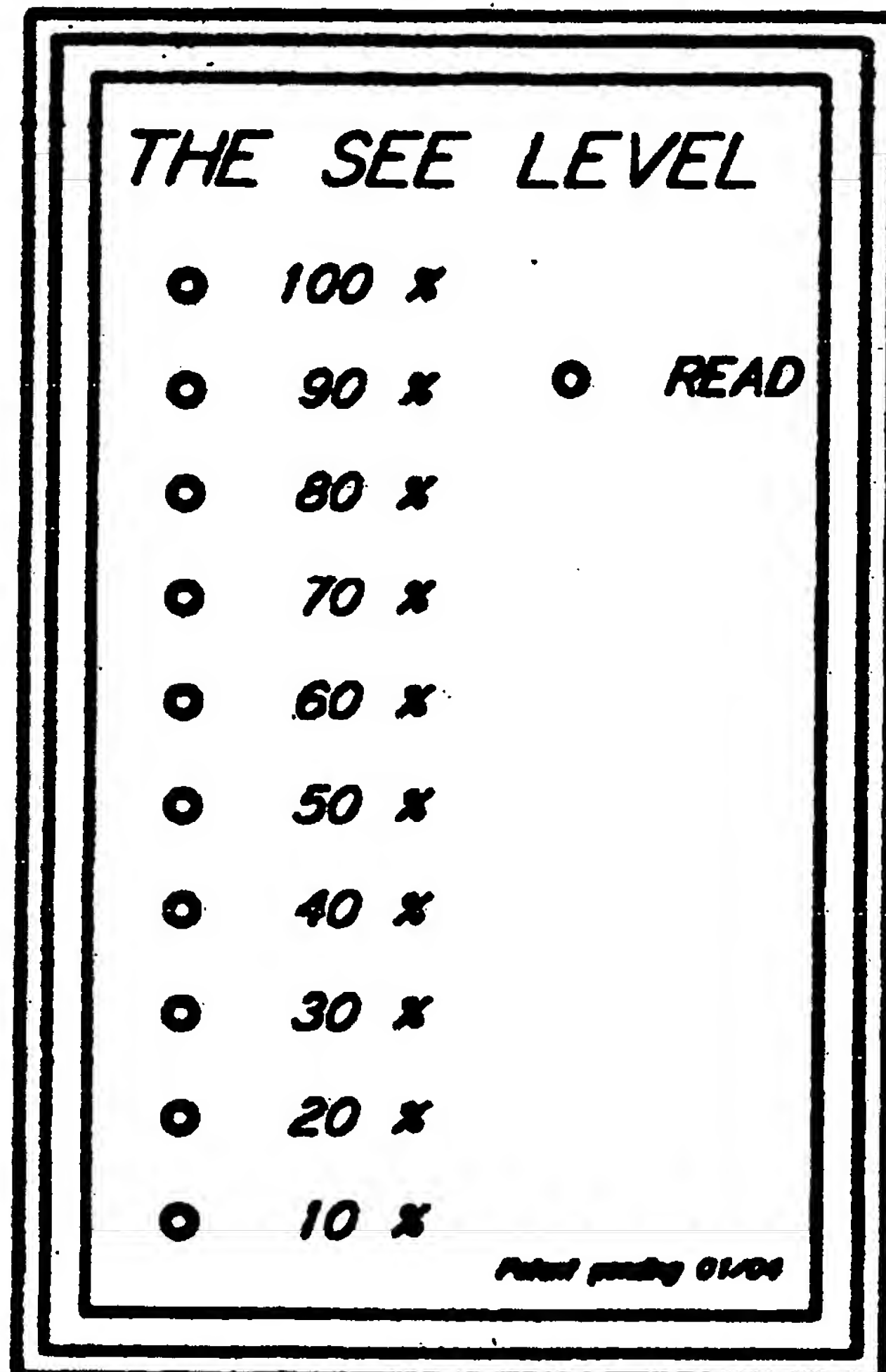
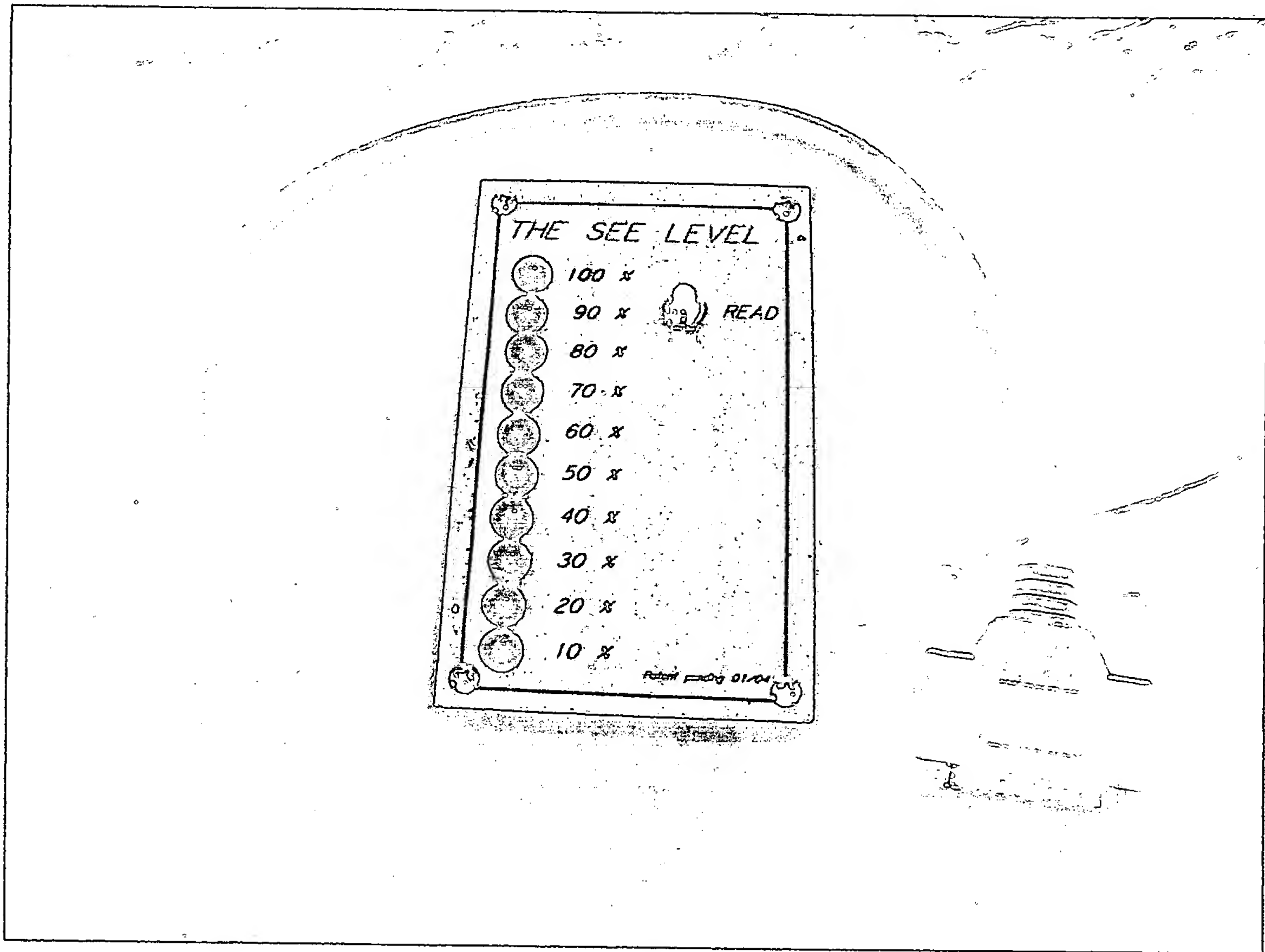




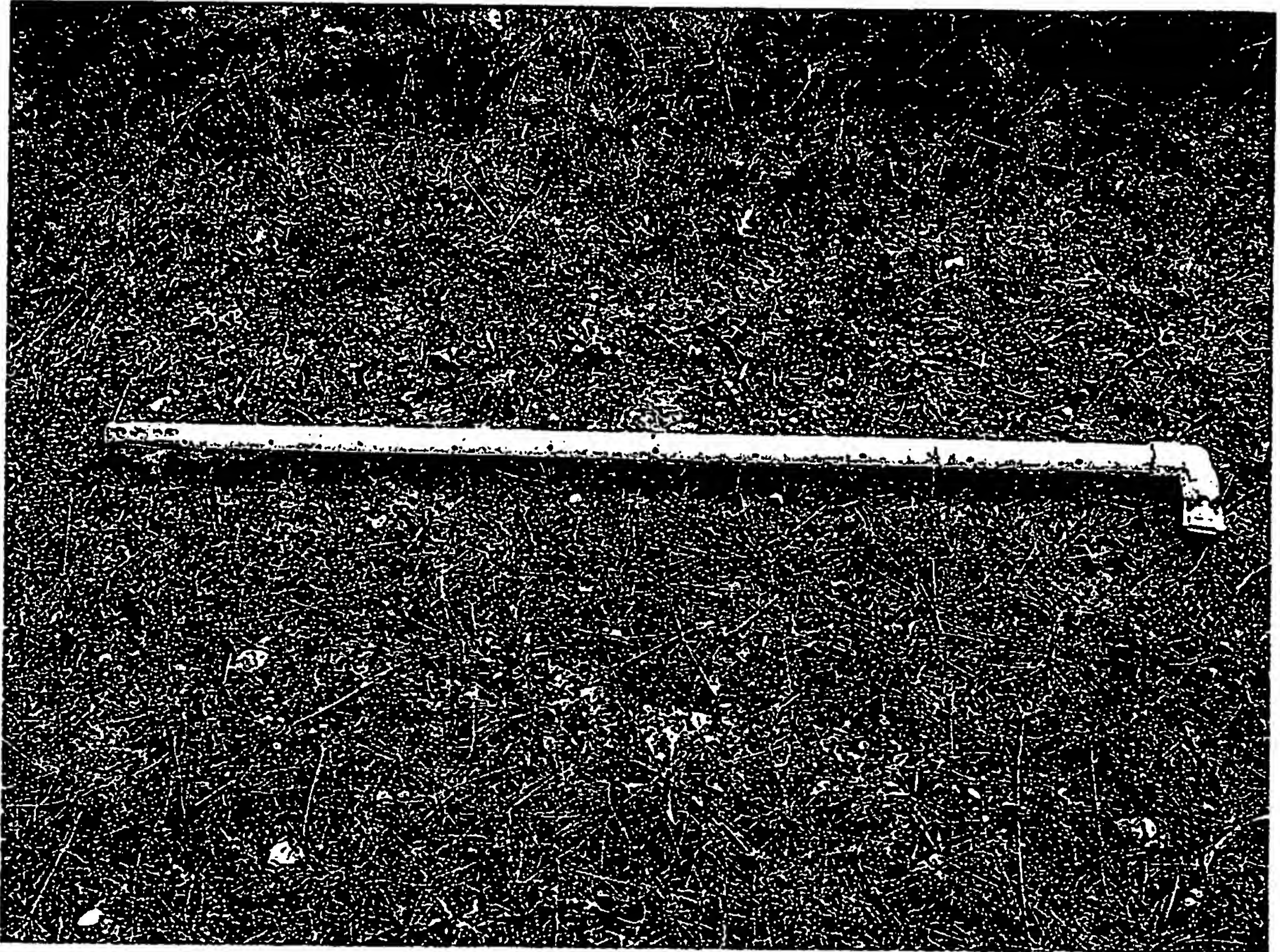
FIG. 16





Replacement Sheet
Mh

The Complete Probe Assembly (5 foot version) Prototype
FIG. 17



Mh.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.